

## **ABSTRACT**

**[69]** The disclosure relates to providing a secondary communication channel overlaid on a primary communication channel, using an enhanced encoding method, to effectively expand the utilized information capacity of the primary communication channel. A portion of at least a first word of one or more packets may be encoded in a datastream. A running disparity of the encoded word may be reversed. Hence, if an encoded running disparity of an encoded word is RD positive RD(+), then the running disparity is reversed to RD negative RD(-). Similarly, if an encoded running disparity is RD negative RD(-), then the running disparity is reversed to RD positive RD(+). The word may be a data word, control word or an idle word corresponding to a data packet, a control packet and an idle packet, respectively.